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Agency Secretary

Air Resources Board

Alan C. Lloyd, Ph.D.
Chairman

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Gray Davis
Governor

June 29, 2001

Executive Order G-70-199: Certification of Gasoline Dispensing Nozzles to the 350 Milliliters per 1000 Gallons Liquid Retention Standard

Dear Sir or Madam:

Within the last year, the California Air Resources Board (CARB) has begun implementation of the Enhanced Vapor Recovery program by testing and certifying gasoline dispenser nozzles. The tests performed on the nozzles quantifies the volume of liquid gasoline retained within the nozzle spout and vapor passage of the hose between refueling events. Gasoline retained on the atmospheric side of the vapor check valve, and/or in the nozzle's liquid path, is subject to potential evaporation and/or spillage that can be harmful to the environment.

Requirements

Effective July 1, 2001, gasoline-dispensing nozzles must meet the liquid retention standard of less than or equal to 350 milliliters per 1000 gallons, as stated in the attached Executive Order (E.O.) G-70-199 regarding the certification of gasoline dispensing nozzles unless the ARB determines that the nozzles are not commercially available. Exhibit 1 of the E.O. specifies which nozzles may be used for new installations. Exhibit 2 specifies which nozzles may be used as replacement nozzles. Exhibit 3 specifies which nozzles are not allowed as a replacement. As stated in the E.O., all nozzles may be repaired unless they are listed in Exhibit 3. A nozzle may not be sold until it passes the liquid retention test and is subsequently listed in Exhibit 1 of an updated Executive Order. A nozzle that subsequently fails will be listed in Exhibit 3 of the Executive Order and may no longer be sold, offered for sale, or installed. Repair of nozzles listed in Exhibit 3 is prohibited as well. Installation or replacement of any nozzle not allowed per Exhibit 1 or Exhibit 2 is prohibited by California Health and Safety Code 41954 (f) because the nozzle is no longer certified and is subject to enforcement action.

Commercial Availability

We have determined that the supply of replacement nozzles meeting the 350-milliliter per 1000 gallon liquid retention standard is not commercially available on July 1, 2001. Therefore, we will allow all nozzles that have been certified before July 1, 2001, to continue to be offered for sale, sold, and installed through **July 15, 2001**. After

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Website: <http://www.arb.ca.gov>.

California Environmental Protection Agency

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July 15, 2001, all nozzles sold, offered for sale, and installed must comply with Exhibits 1 and 2 of Executive Order G-70-199 for new installations and nozzle replacements. After July 15, nozzles not found in Exhibits 1 or 2 of the attached Executive Order G-70-199 shall be placed in a clearly designated "quarantine area" or purged from the parts house.

Status of Nozzles

As additional gasoline dispensing nozzle models pass or fail the certification test, the Executive Order G-70-199 will be updated and made available on the CARB vapor recovery website located at <http://www.arb.ca.gov/vapor/vapor.htm>.

Nozzles currently being evaluated include:

Catlow ICVN	Emco Wheaton 4005	Emco Wheaton 4007	Emco Wheaton 4015
Emco Wheaton 4500	Emco Wheaton 4505	EZ-flo 11VF	EZ-flo 5005
EZ-flo 5015	Healy 800	Husky V3	OPW 11 VAI-27
OPW 11 VAI-37	OPW 12VW	Richards Astrovac	

In an effort to address the most frequently asked questions, we will be posting information on the CARB vapor recovery website located at <http://www.arb.ca.gov/vapor/faq.htm> or by using the "FAQ's" button on the vapor recovery main page. If you have questions or need further information, please direct them to the Air Resources Board's Engineering and Certification Branch at (916) 327-0900 or send an e-mail by using the question feature at the end of the FAQ page.

Sincerely,



William V. Loscutoff, Chief
Monitoring and Laboratory Division

Attachment

**State of California
AIR RESOURCES BOARD**

Executive Order G-70-199

**Certification of Gasoline Dispensing Nozzles to the
Liquid Retention Standard of 350 milliliters per 1,000 Gallons Dispensed**

WHEREAS, the California Air Resources Board ("CARB") has established, pursuant to California Health and Safety Code sections 39600, 39601 and 41954, certification procedures for systems designed for the control of gasoline vapor emissions during motor vehicle fueling operations in its **CP-201 Certification Procedure for Vapor Recovery Systems of Dispensing Facilities (Certification Procedure)** as last amended June 1, 2001, incorporated by reference into Title 17, California Code of Regulations, section 94011;

WHEREAS, CARB has established, pursuant to California Health and Safety Code sections 39600, 39601 and 41954, test procedures for determining the compliance of vapor recovery systems with emission standards;

WHEREAS, the nozzles listed in Exhibits 1 and 3 have been tested in accordance with **TP-201.2E Gasoline Liquid Retention in Nozzles and Hoses**;

WHEREAS, the Certification Procedure provides that the Executive Officer shall issue an order of certification if he or she determines that the vapor recovery system conforms to all of the applicable requirements set forth in the Certification Procedure; and

WHEREAS, I, Michael P. Kenny, California Air Resources Board Executive Officer, find that the listed nozzles, with the exception of those listed in Exhibit 3, conform with the applicable requirements set forth in the Certification Procedure and result in a vapor recovery system that is at least 95 percent effective for attendant and/or self-serve use at gasoline service stations when the nozzles are used as specified in Exhibits 1 and 2, and when used in conjunction with a CARB-certified Phase I and Phase II vapor recovery system.

NOW, THEREFORE, IT IS HEREBY ORDERED that the nozzles listed in Exhibit 1 are certified to meet the July 1, 2001, liquid retention standard of 350 milliliters, or less, per 1,000 gallons dispensed.

IT IS FURTHER ORDERED that the continued use of installed systems as permitted by Health and Safety Code section 41956.1 shall meet the requirements of CP-201, section 19. Nozzles listed in Exhibit 2 shall be allowed as replacement nozzles in gasoline dispensing facilities installed prior to July 1, 2001, in accordance with this section.

IT IS FURTHER ORDERED that a nozzle specified in an executive order listed in Exhibit 3 shall not be sold, offered for sale, or installed in any new or existing gasoline dispensing facility after July 1, 2001.

IT IS FURTHER ORDERED that any alteration of the equipment, parts, design, or operation of the systems certified hereby is prohibited, and is not compliant with this certification, unless such alteration has been approved by the Executive Officer or his/her designee.

IT IS FURTHER ORDERED that this Executive Order is valid through June 30, 2005, except as otherwise provided in Health & Safety Code sections 41954 and 41956.1 and the Certification Procedure, or until superceded by a modified executive order.

Executed at Sacramento, California, this 29th day of June 2001.



Michael P. Kenny
Executive Officer

Attachments:

Exhibit 1 Systems and Nozzles Allowed for New Installations

Exhibit 2 Nozzles Allowed as Replacements in Facilities Installed Prior to July 1, 2001

Exhibit 3 Nozzles Not Allowed for Installation in New or Existing Facilities

Executive Order G-70-199
Exhibit 1
Systems and Nozzles Allowed for New Installations

The following table lists the nozzles which have met the liquid retention standard of 350 milliliters, or less, per 1,000 gallons dispensed. Nozzles listed below may be installed in new gasoline dispensing facilities.

All nozzles (even those not listed in Exhibit 2) may be repaired using certified parts, unless the nozzle is listed in Exhibit 3. Repair parts include non-internal parts such as spouts, bellows and hold open latches.

Executive Order	System	Allowed nozzle
G-70-33	Hirt	Husky V(5) OPW 11VF-47
G-70-52	Balance	Husky V(5) OPW 11VF-47
G-70-150	Marconi (Gilbarco)	Husky V34 6250
G-70-153	Dresser Wayne	Husky V34 6250 OPW 11VAI-xx xx = 64,69,84,89
G-70-154	Tokheim	Husky V34 6250 OPW 11VAI-xx xx = 63,68,83,88
G-70-163	OPW VaporEZ	OPW 11VAI-xx xx = 63, 68, 83, 88
G-70-169	Franklin Electric	Husky V34 6250
G-70-177	Hirt VCS400-7	OPW 11VA-29
G-70-196	SaberVac	Husky 6051

Executive Order G-70-199**Exhibit 2****Nozzles Allowed as Replacements in Facilities Installed Prior to July 1, 2001**

The following table lists the nozzles which have either met the liquid retention standard of 350 milliliters, or less, per 1,000 gallons dispensed, or are allowed to be used because no other nozzle certified with the system has yet met the standard. Only nozzles listed in this table may be offered for sale, sold, or installed in any gasoline dispensing facility after July 1, 2001.

All nozzles (even those not listed in Exhibit 2) may be repaired using certified parts, unless the nozzle is listed in Exhibit 3. Repair parts include non-internal parts such as spouts, bellows and hold open latches.

Executive Order	System	Allowed nozzle
G-70-33	Hirt	Husky V(5) OPW 11VF-47
G-70-52	Balance	Husky V(5) OPW 11VF-47
G-70-118	Amoco	OPW 11V-J51 OPW 11V-J61 OPW 11-VAA Husky Model V-1
G-70-150	Marconi (Gilbarco)	Husky V34 6250
G-70-153	Dresser Wayne	Husky V34 6250 OPW 11VAI-xx xx = 64,69,84,89
G-70-154	Tokheim	Husky V34 6250 OPW 11VAI-xx xx = 63,68,83,88
G-70-163	OPW VaporEZ	OPW 11VAI-xx xx = 63, 68, 83, 88
G-70-164	Hasstech VCP-3A	OPW 11VAI-37 Husky V34 6200-8 Emco Wheaton A4505
G-70-165	Healy 600	Healy 600
G-70-169	Franklin Electric	Husky V34 6250
G-70-177	Hirt VCS400-7	OPW 11VA-29
G-70-179	Catlow ICVN-VI	Catlow ICVN Richards Astrovac
G-70-183	Healy Franklin	Healy 600
G-70-186	Healy 400 ORVR	Healy 400 ORVR
G-70-188	Catlow ICVN/Gilbarco VaporVac	Catlow ICVN
G-70-191	Healy 600 ORVR/800	Healy 600 ORVR Healy 800
G-70-196	SaberVac	Husky 6051

Executive Order G-70-199

Exhibit 3

Nozzles Not Allowed for Installation in New or Existing Facilities

The following table lists the nozzles which have been tested and have failed to meet the liquid retention standard of 350 milliliters, or less, per 1,000 gallons dispensed. Once a nozzle is replaced, it must be replaced with a nozzle from Exhibit 1 or 2.

Nozzles listed in this Exhibit shall not be repaired.

Nozzles Disallowed	Affected Executive Orders
None currently listed (several models are on test)	